

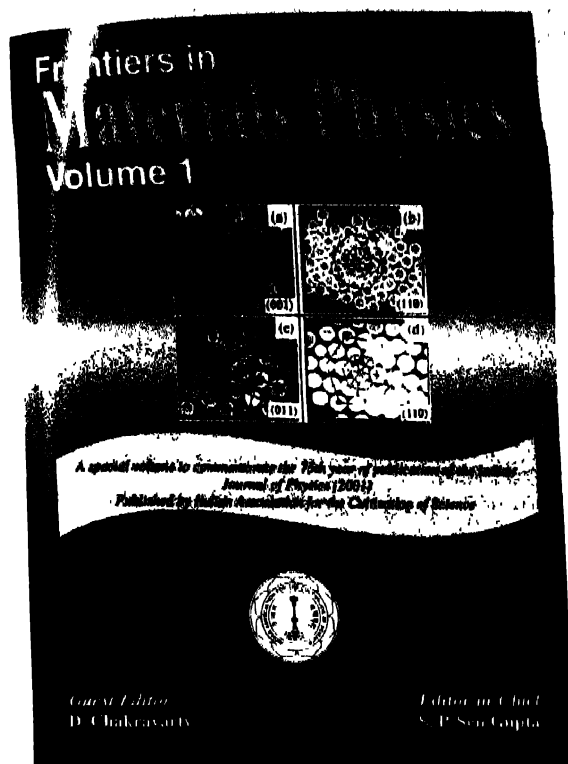
ANNOUNCEMENT

FROM EDITOR'S DESK

We are happy to announce that the year 2001 is a significant year in the history of IACS as it marks the celebration of two important events namely,

- 75th year of publication of Indian Journal of Physics
- 125th year of existence of Indian Association for the Cultivation of Science.

To commemorate these two events of historical interests, the Board of Editors has decided to publish Special Commemoration Volumes in a larger scale so as to reach all sections of readers. Consequently, 6 Special Volumes will be published (through Messrs. Allied Publishers Pvt. Ltd., New Delhi) in frontier areas of current interests, along with another publication from us on "**Landmark Publications in IJP in past 75 years**". Volume 1 (Frontiers in Materials Physics) has just been published and other publications in the areas of Astrophysics (Vol. 2), Atomic and Molecular Physics (Vol. 3), High Energy Physics (Vol. 4), Condensed Matter Physics (Vol. 5) and Biophysics (Vol. 6), will be made within this year. Announcements will appear in the IJP issues regularly and interested readers and subscribers, for the purchase of these Volumes, may contact us for '**Landmark Publication**' and M/s. Allied Publishers Pvt. Ltd. for Volumes 1-6.



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India and Abroad: A Conference in Condensed Matter Physics

IACM-III (Jan 2-4 2003, SNBNCBS, Kolkata)

Final Announcement and Call for Contributions

This meeting is the third in an ongoing series; the previous ones were held at the SNBNCBS, Kolkata in January 2001 and at J.N. Centre and IISc., Bangalore in January 2002. As the name suggests, this conference will bring together members of the Condensed Matter Physics community in India and Condensed Matter Physicists of Indian "origin" (!)(interpreted quite broadly to include all with special ties to India) worldwide.

Further, the phrase "Condensed Matter Physics" is also interpreted broadly, to include statistical mechanics as well as material science, biophysics and related inter-disciplinary areas. The goal for the meeting this year, as always, is to bring together a balanced group of experimentalists and theorists both in India and elsewhere, whose work represents the state of the art in the areas covered. As interpreted here, Condensed Matter Physics includes among the most active and technologically important areas in physical science research, and therefore promotion of a balance of theoretical and applied research in this area is of significant national importance. In addition to the purely scientific agenda defined by the program, the meeting has the broader aim of fostering closer integration between the community of condensed matter scientists in India and the community of scientists of Indian origin elsewhere, facilitating a two-way flow of ideas and people, which promise substantial benefit to research activity in India.

A list of topics covered and a partial list of invited speakers being contacted are given below. In addition, we are planning a poster session for a small number of contributed posters and/or short presentations.

Requests for participation together with a title and abstract of the contributed poster should be sent to :

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or

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On-line updated information may be obtained from the website, <http://www.bose.res.in/~iacm3>

Topics

- I. Strongly correlated systems
- II. Bose Einstein Condensation
- III. Novel Materials, Nano Materials and Materials Science
- IV. Soft Matter and Biology
- V. Statistical Physics in Interdisciplinary areas

Invited Speakers

Chandra Varma (Bell Labs), C. S. Sunder (Kalpakkam), Sriram Sastry (IISc), Ganiapathy Murthy (U. Kentucky), S. Raghavan (Rochester), C. S. Unnikrishnan (TIFR), Subhasis Sinha (CNRS), Ananth P. Chikkatur (MIT), M. Muthukumar (U. Mass.)*, Vijay Shenoy (IISc), C. S. Jaya (U. Louisville), K. R. Sreenivasan (Yale), Biman Bagchi (IISc), Gautam Tripathy (U. Leiden), S. S. Manna (SNBNCBS), G. Ravikumar (TIFR), R. Rajesh (Oxford), S. Puri (JNU), K.P.N. Murthy (IGCAR), S. R. Shenoy (ICTP), A. Baumgaertner (Juelich), C. Chakravarty (IIT D), Mohan Srinivasan (Georgia Tech.), Shyamsunder Eramilli (Boston U.), Sudhangsu Mandal (IACS), S. M. Sharma (BARC)*, O. Cepus (IISc)*

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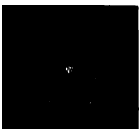
Grain of strength

Achieving strength and ductility in nanostructured metals
(*Nature*, 31 October 2002)



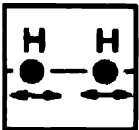
Nautical neutrinos

Factoring in the neutrino baseline of nuclear ships and submersibles
(*Phys. Rev. Lett.*, 22 October 2002)



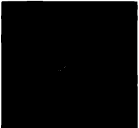
In brief: Hydroelectricity

Measuring the electrical characteristics of a hydrogen molecule
(*Nature*, 31 October 2002)




In brief: Between the limits

Optimizing the efficiency of mesoscopic detection systems
(*Phys. Rev. Lett.*, 24 October 2002)



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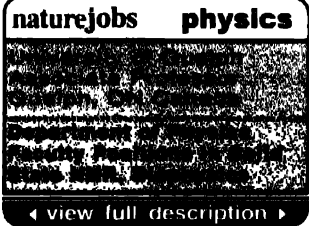
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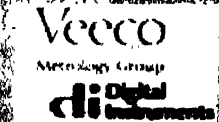
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On the anti-factory floor
Production of cold antihydrogen goes into overdrive (*Nature*, 3 October 2002)


Air on a nanostring
Operating high-quality resonant nanostructures in air (*Appl Phys Lett.*, 30 September 2002)


In brief: Persistence of conduction
Converting an insulator into a conductor with light (*Nature*, 3 October 2002)


In brief: Light surgery
Surgical scalpels made from sunlight (*Appl. Phys. Lett.*, 30 September 2002)


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From *Nature*, 3 October 2002
Misconduct finding at Bell Labs shakes physics community

Keeping up appearances

Rising star crashes back to Earth

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